
Abstract of the Disclosure

al 5 An x-ray diffraction apparatus and method are provided in which an x-ray or
goniometer head can be adjusted in different directions to allow the head to direct x-rays
at a part from various positions. In this manner, stress measurements can be taken from
a wider region of the part without requiring that the part itself be moved or that an
operator move the unit, which can be relatively heavy. Preferably, the apparatus is a
portable unit including adjustment mounts to allow the x-ray head to be moved in the
different directions so that it can be transported for use in the field at the site at which a
part is located to allow for measurements to be taken from the part while it remains in
10 service.
